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Abstract

ATOMIC POWER PLANTS IN THE GENERAL POWER SYSTEM OF THE USSR

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The present power development in the USSR is characterized by quick increasing of power capacities through commitment of large thermal and hydro power stations which have great power units as well as through integration of separate power systems into enormous power complexes.

The availability of practically unlimited resources of coal, oil, gas and hydropower in the USSR makes it possible during a certain period of time to build only pilot-commercial atomic power plants with various reactors in order to gain some experience in designing, building and operation of such power plants.

The enormous scale of power development provided in the program of the Communist Party of the Soviet Union and the unevenness in the distribution of electric power consumption districts and the irregularities of power source deposits will demand in the future the building of a number of large atomic power plants mainly in the districts where the resources of fuel and hydropower are limited.

The paper discusses some permises of integration of atomic plants into power systems of the USSR and the main requirements the atomic power plants are to meet in order their wide integration into these systems was economically warrant.

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